

10/510413

75

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SEQUENCE LISTING

<110> Novartis AG
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Gln	Asp	Glu	Leu	Arg	Ser	Leu	Phe	Ser	Ser	Ile	Gly	Glu	Val	Glu	Ser
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Ala	Lys	Leu	Ile	Arg	Asp	Lys	Val	Ala	Gly	His	Ser	Leu	Gly	Tyr	Gly
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Phe	Val	Asn	Tyr	Val	Thr	Ala	Lys	Asp	Ala	Glu	Arg	Ala	Ile	Asn	Thr
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Leu	Asn	Gly	Leu	Arg	Leu	Gln	Ser	Lys	Thr	Ile	Lys	Val	Ser	Tyr	Ala
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Arg	Pro	Ser	Ser	Glu	Val	Ile	Lys	Asp	Ala	Asn	Leu	Tyr	Ile	Ser	Gly
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Leu	Pro	Arg	Thr	Met	Thr	Gln	Lys	Asp	Val	Glu	Asp	Met	Phe	Ser	Arg
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Phe	Gly	Arg	Ile	Ile	Asn	Ser	Arg	Val	Leu	Val	Asp	Gln	Thr	Thr	Gly
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Glu Glu Ala Ile Thr Ser Phe Asn Gly His Lys Pro Pro Gly Ser Ser
165 170 175

Glu Pro Ile Ala Val Lys Phe Ala Ala Asn Pro Asn Gln Asn Lys Asn
180 185 190

Val Ala Leu Leu Ser Gln Leu Tyr His Ser Pro Ala Arg Arg Phe Gly
195 200 205

Gly Pro Val His His Gln Ala Gln Arg Phe Arg Phe Ser Pro Met Gly
210 215 220

Val Asp His Met Ser Gly Leu Ser Gly Val Asn Val Pro Gly Asn Ala
225 230 235 240

Ser Ser Gly Trp Cys Ile Phe Ile Tyr Asn Leu Gly Gln Asp Ala Asp
245 250 255

Glu Gly Ile Leu Trp Gln Met Phe Gly Pro Phe Gly Ala Val Thr Asn
260 265 270

Val Lys Val Ile Arg Asp Phe Asn Thr Asn Lys Cys Lys Gly Phe Gly
275 280 285

Phe Val Thr Met Thr Asn Tyr Glu Glu Ala Ala Met Ala Ile Ala Ser
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Leu Asn Gly Tyr Arg Leu Gly Asp Lys Ile Leu Gln Val Ser Phe Lys
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Thr Asn Lys Ser His Glu
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Gly Arg Thr Asn Leu Ile Val Asn Tyr Leu Pro Gln Asn Met Thr Gln
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35 40 45

Lys Leu Ile Arg Asp Lys Val Ala Gly His Ser Leu Gly Tyr Gly Phe
50 55 60

Val Asn Tyr Val Thr Ala Lys Asp Ala Glu Arg Ala Ile Asn Thr Leu
65 70 75 80

Asn Gly Leu Arg Leu Gln Ser Lys Thr Ile Lys Val Ser Tyr Ala Arg
85 90 95

Pro Ser Ser Glu Val Ile Lys Asp Ala Asn Leu Tyr Ile Ser Gly Leu
100 105 110

Pro Arg Thr Met Thr Gln Lys Asp Val Glu Asp Met Phe Ser Arg Phe
115 120 125

Gly Arg Ile Ile Asn Ser Arg Val Leu Val Asp Gln Thr Thr Gly Leu
130 135 140

Ser Arg Gly Val Ala Phe Ile Arg Phe Asp Lys Arg Ser Glu Ala Glu
145 150 155 160

Glu Ala Ile Thr Ser Phe Asn Gly His Lys Pro Pro Gly Ser Ser Glu
165 170 175

Pro Ile Ala Val Lys Phe Ala Ala Asn Pro Asn Gln Asn Lys Asn Val
180 185 190

Ala Leu Leu Ser Gln Leu Tyr His Ser Pro Ala Arg Arg Phe Gly Gly
195 200 205

Pro Val His His Gln Ala Gln Arg Phe Arg Phe Ser Pro Met Gly Val
210 215 220

Asp His Met Ser Gly Leu Ser Gly Val Asn Val Pro Gly Asn Ala Ser
225 230 235 240

Ser Gly Trp Cys Ile Phe Ile Tyr Asn Leu Gly Gln Asp Ala Asp Glu
245 250 255

Gly Ile Leu Trp Gln Met Phe Gly Pro Phe Gly Ala Val Thr Asn Val
260 265 270

Lys Val Ile Arg Asp Phe Asn Thr Asn Lys Cys Lys Gly Phe Gly Phe
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285

Val Thr Met Thr Asn Tyr Glu Glu Ala Ala Met Ala Ile Ala Ser Leu
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Asn Gly Tyr Arg Leu Gly Asp Lys Ile Leu Gln Val Ser Phe Lys Thr
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Asn Lys Ser His Glu
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 35 40 45

Ala Lys Leu Ile Arg Asp Lys Val Ala Gly His Ser Leu Gly Tyr Gly
 50 55 60

Phe Val Asn Tyr Val Thr Ala Lys Asp Ala Glu Arg Ala Ile Asn Thr
 65 70 75 80

Leu Asn Gly Leu Arg Leu Gln Ser Lys Thr Ile Lys Val Ser Tyr Ala
 85 90 95

Arg Pro Ser Ser Glu Val Ile Lys Asp Ala Asn Leu Tyr Ile Ser Gly
 100 105 110

Leu Pro Arg Thr Met Thr Gln Lys Asp Val Glu Asp Met Phe Ser Arg
 115 120 125

Phe Gly Arg Ile Ile Asn Ser Arg Val Leu Val Asp Gln Thr Thr Gly
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Leu Ser Arg Gly Val Ala Phe Ile Arg Phe Asp Lys Arg Ser Glu Ala
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Glu Glu Ala Ile Thr Ser Phe Asn Gly His Lys Pro Pro Gly Ser Ser
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Glu Pro Ile Ala Val Lys Phe Ala Ala Asn Pro Asn Gln
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Asp Glu Leu Arg Ser Leu Phe Ser Ser Ile Gly Glu Val Glu Ser Ala
 35 40 45

Lys Leu Ile Arg Asp Lys Val Ala Gly His Ser Leu Gly Tyr Gly Phe
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Val Asn Tyr Val Thr Ala Lys Asp Ala Glu Arg Ala Ile Asn Thr Leu
 65 70 75 80

Asn Gly Leu Arg Leu Gln Ser Lys Thr Ile Lys Val Ser Tyr Ala Arg
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Pro Ser Ser Glu Val Ile Lys Asp Ala Asn Leu Tyr Ile Ser Gly Leu
 100 105 110

Pro Arg Thr Met Thr Gln Lys Asp Val Glu Asp Met Phe Ser Arg Phe
 115 120 125

Gly Arg Ile Ile Asn Ser Arg Val Leu Val Asp Gln Thr Thr Gly Leu
 130 135 140

Ser Arg Gly Val Ala Phe Ile Arg Phe Asp Lys Arg Ser Glu Ala Glu
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Glu Ala Ile Thr Ser Phe Asn Gly His Lys Pro Pro Gly Ser Ser Glu
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Pro Ile Ala Val Lys Phe Ala Ala Asn Pro Asn Gln
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